

## REQUEST FOR BIDS

The City of Las Vegas, New Mexico will open Sealed Bids at 2:10 p.m., August 18 2015, at the City Council Chambers, 1700 North Grand Avenue, Las Vegas, New Mexico, or other designated area at the City Offices; ON THE FOLLOWING:

### CLARIFLOC C-358 POLYMER

The BIDDING FORMS AND TECHNICAL SPECIFICATIONS may be examined at the following location: 1700 N. GRAND AVE LAS VEGAS NM 87701

Copies of the BIDDING FORMS AND TECHNICAL SPECIFICATIONS may be obtained at the office of : 1700 N. GRAND AVE LAS VEGAS NM 87701

Mailed Bids should be addressed to the City Clerk, 1700 N. Grand Ave., Las Vegas, New Mexico 87701; with the envelope marked: CLARIFLOC C-358 POLYMER, Opening No. 2016-10; on the lower left-hand corner of the submitted envelope. It shall be the responsibility of the bidder to see that their bid is delivered to the City Clerk by the date and time set for the bid request. If the mail or delivery of bid request is delayed beyond the opening date and time, bid thus delayed will not be considered. A public opening will be held and any bidder or their authorized representative is invited to attend.

The City of Las Vegas reserves the right to reject any/or all bids submitted.

CITY OF LAS VEGAS,

Elmer J. Martinez  
ELMER J. MARTINEZ, CITY MANAGER

Cassandra Fresquez  
CASANDRA FRESQUEZ, CITY CLERK

Ann M. Gallegos  
ANN M. GALLEGOS, FINANCE DIRECTOR

June Tafoya-Cordova  
JUNE TAFOYA-CORDOVA, PURCHASING OFFICER

Opening No. 2016-10

Date Issued: 7-29-2015

Date Issued: Published:

Las Vegas Optic

City website: [www.lasvegasnm.gov](http://www.lasvegasnm.gov)

## STANDARD BID CLAUSES

### AWARDED BID

Awarding of Bid shall be made to the responsible Bidder whose Bid meets the required specifications. The City of Las Vegas (City) reserves the right to reject or accept any of all Bid specifications and to waive any insubstantial irregularity in the form of the Bid.

The City of Las Vegas may make multiple awards of the bid, to those bidding in law enforcement related services. The City Reserves the right to award the bid to the most advantageous Bidder to the City.

### TIMETABLE

Bids pursuant to this request must be received at the City Clerk's Office at 1700 North Grand Avenue, Las Vegas, New Mexico, on or before 2:30pm, August 18, 2015 at which time all bids received will be opened. An opening will occur at the City's Council Chambers or other designated area at the City Offices. Awarding of Bid is projected for September, 2015. The successful Bidder will be notified by mail.

### ENVELOPES

Sealed Bid envelopes shall be clearly marked on the lower left-hand corner, identified by the Bid Name and Opening Number. Failure to comply with this requirement may result in the rejection of your submitted Bid. Enclose one (1) original and two (2) copies of Bid.

### BRIBERY AND KICKBACK

The Procurement Code of New Mexico; (Section 13-1-28 through 13-1-99 N.M.S.A. 1978), impose a third degree felony penalty for bribery of a public official or public employee. In addition the New Mexico Criminal Statutes (Section 30-4-1, N.M.S.A. 1978): state that it is a third degree felony to commit the offense of demanding or receiving a bribe by a public official of public employee. And (Section 30-24-2, N.M.S.A. 1978): it is a fourth degree felony to commit the offense of soliciting or receiving illegal kickbacks. Also (Section 30-41-1 through 30-41-3, N.M.S.A. 1978): states that it is a fourth degree felony to commit the offense of offering or paying illegal kickbacks.

### NON-COLLUSION

In signing their Bid and Affidavit, the Bidder certifies that he/she has not, either directly or indirectly entered into action of restraint of free competition, in the connection with the submitted bid.

### RESPONSIBILITY OF BIDDER

At all times it shall be the responsibility of the Bidder to see their bid is delivered to the City Clerk by the Date and Time scheduled for opening. If the mail or delivery of said Bid is delayed beyond the scheduled opening date and time set, bid this delayed will not be considered.

### CLARIFICATION OF BID

Bidder requiring clarification or interpretation of Bid specifications shall make a written request to the Department involved in this bid request at least five (5) days prior to the scheduled bid opening date with a copy forwarded to the Finance Department. Any interpretation, corrections or changes of said Bid Specifications, Opening Date, or Time Change will be made by Addendum only. Interpretations, Corrections or changes of said bid made in any other manner will not be binding and the Bidder shall not rely upon such interpretation, corrections and changes.

### MODIFICATION OF BID

Bids may be withdrawn upon receipt of written request prior to the scheduled bid opening for the purpose of making any corrections or changes. Such corrections must be properly identified and signed or initialed by the Bidder. Resubmission must be prior to the scheduled bid opening time in order to be considered. After bid opening, no price modifications of submitted bids or other provisions shall be permitted.

### WITHDRAWAL OF BID

A low Bidder alleging a material mistake of fact, after bids have been opened may request their bid be withdrawn upon receipt of a written request to the Finance Department prior to the scheduled awarding date.

### INSPECTION

Final inspection and acceptance will be made at the City's destination. Products rejected for nonconformance with the specifications shall be removed by the Bidder; at his/her risk and expense promptly after notice of rejection.

### FEDERAL TAX IDENTIFICATION NUMBER

Pursuant to IRS requirements, Bidder shall provide their Federal Tax ID Number if Bidder is incorporated. If Bidder is a sole proprietorship or partnership then they shall provide their Social Security Number.

FEDERAL TAX ID NUMBER: \_\_\_\_\_

SOCIAL SECURITY NUMBER: \_\_\_\_\_

### NEW MEXICO TAX IDENTIFICATION NUMBER

Payment may be withheld under (Section 7-10-5, N.M.S.A. 1978) if you are subject to New Mexico Gross Receipts Tax and have not registered for a New Mexico (CRS) Tax Identification Number. Contact the New Mexico Taxation & Revenue Department at (505) 827-0700 for registering instructions.

NEW MEXICO TAX IDENTIFICATION NO. (CRS): \_\_\_\_\_

## CAMPAIGN CONTRIBUTION DISCLOSURE FORM

The Bidder shall submit a completed Campaign Contribution Disclosure Form Pursuant to Chapter 81, Laws of 2006.

### COMMERCIAL WARRANTY

The Bidder agrees that the products or services furnished under a Purchase Order shall be covered by the most favorable commercial warranties that the Bidder gives to any customer for such products or services. And that the rights and remedies provided therein shall extend to the City and are in addition to and do not limit any rights afforded to the City by any other clause of its Purchase Order. Bidder agrees not to disclaim warranties of fitness for any particular purpose or merchantability.

Furthermore, Bidder agrees that its warranty for all products furnished under a Purchase Order pursuant to this Call for Bids shall be for a period of one year following the installation of said products by others. Also a receipt of a notice by the City's Engineer the products have been installed correctly and have been demonstrated to be capable of performing their intended function.

### SPECIAL NOTICE

To preclude possible errors and/or misinterpretations, bid prices must be affixed in ink or typewritten legibly. Enclose one (1) original and two (2) copies of Bid documents.

### DEFAULT

The City reserves the right to cancel all or any part of an order without cost to the City if the Bidder fails to meet the provisions of the City's Purchase Order or the product specifications and to hold the Bidder liable for any excess costs occasioned due to the Bidder's default. The Bidder shall not be liable for any excess costs if failure to perform on an order arises out of cause beyond the control and without fault or negligence of the Bidder. Such causes include, but are not restricted to, acts of God or public enemy; acts of State or Federal Government; fires, floods, epidemics, quarantine restrictions, strikes, embargoes, unusually severe weather, or defaults of subcontractors. Due to any of the above unless the City shall determine that the supplies or services to be furnished by the subcontractor are obtainable from other sources in the City in this paragraph shall not be exclusive and are in addition to any other rights now being provided by law.

### BID PROTESTS

If any Bidder is of the opinion that the specifications as written preclude him/her from submitting a bid. His/her opinion should be made known to the Department involved in this bid request at least twelve (12) days prior to the scheduled bid opening date with a copy forwarded to the Finance Department. Bid protests will not be considered from parties which do not also furnish satisfactory documentation with their protest that their proposed system fully meets the functional intent of the TECHNICAL SPECIFICATIONS which accompany a Call for Bids.

### NON-EXCLUSION

Specifications of the bid request are not meant to exclude any Bidder or Manufacturer. Where a brand name or equal is indicated, it is for the purpose of describing the standard of quality, performance and characteristics desired and is not intended to restrict competition. "No Substitute" specifications may be authorized, only if required to match existing equipment.

If any Bidder is of the opinion that the specifications as written preclude him/her from submitting a bid. His/her opinion should be made known to the Department involved in this bid request at least five (5) days prior to the scheduled bid opening date; with a copy forwarded to the Finance Department.

Brand names and numbers are for reference only and equivalents will be considered. If bidding "EQUIVALENT" Bidder must be prepared to furnish complete data upon request, preferably with the bid to avoid awarding delay.

### CONTRACT

When the City issues a Purchase Order in response to an awarded Bid a binding contract is created (unless a specified contract has been created).

### TERMINATION

This Price Agreement may be terminated by either party upon signing a written notice to the other party at least thirty (30) days in advance of the date of termination. Notice of termination of this Price Agreement shall not affect any outstanding orders.

### TAXES

Bidder must pay all applicable taxes.

### NOTE:

If bidder is from outside the City of Las Vegas, the successful bidder must pay Gross Receipts in the City of Las Vegas.

**BIDDER INFORMATION**

BIDDER: \_\_\_\_\_

AUTHORIZED AGENT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE NUMBER (\_\_\_\_) \_\_\_\_\_

FAX NUMBER (\_\_\_\_) \_\_\_\_\_

DELIVERY: \_\_\_\_\_

STATE PURCHASING RESIDENT CERTIFICATION NO.: \_\_\_\_\_

NEW MEXICO CONTRACTORS LICENSE NO.: \_\_\_\_\_

BID ITEM (S): \_\_\_\_\_ CLARIFLOC C-358 POLYMER \_\_\_\_\_

ITEM (S) UNDER THIS BID ARE TO BE F.O.B. LAS VEGAS, NEW MEXICO 87701. THE CITY OF LAS VEGAS RESERVES THE RIGHT REJECT ANY OR ALL BIDS AND TO WAIVE ANY TECHINCAL IRREGULARITY IN THE FORM OF THE BID.

**AFFIDAVIT FOR FILING WITH COMPETITIVE BID**

STATE OF \_\_\_\_\_ }

COUNTY OF \_\_\_\_\_ }

I \_\_\_\_\_, of lawful age, being of first duly sworn in oath, say that I am the agent authorized by the bidder to submit the attached bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any city official or employee as to the terms of said prospective contract, or any other terms of said prospective contract; or in any discussion between bidders with any city official concerning an exchange of money or any other thing of value for special consideration in the letting of a contract.

Subscribed and sworn to before me, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Signature

(SEAL)

\_\_\_\_\_  
Notary Public Signature  
My Commission Expires: \_\_\_\_\_

**CITY OF LAS VEGAS  
BID FORM**

<b>BID ITEM (S):</b>	<b>CLARIFLOC C-358 POLYMER</b>
	<b>SEE SPECIFICATIONS ATTACHED</b>

A. _____	\$	_____
B. _____	\$	_____
C. _____	\$	_____
D. _____	\$	_____
E. _____	\$	_____
F. _____	\$	_____
G. _____	\$	_____
F. _____	\$	_____
G. _____	\$	_____
H. _____	\$	_____
I. _____	\$	_____
J. _____	\$	_____
K. _____	\$	_____
L. _____	\$	_____
M. _____	\$	_____
N. _____	\$	_____
O. _____	\$	_____
P. _____	\$	_____
Q. _____	\$	_____
R. _____	\$	_____
S. _____	\$	_____
TOTAL	\$	_____

## CAMPAIGN CONTRIBUTION DISCLOSURE FORM

Pursuant to Chapter 81, Laws of 2006, any prospective contractor seeking to enter into a contract with any state agency or local public body must file this form with that state agency or local public body. The prospective contractor must disclose whether they, a family member or a representative of the prospective contractor has made a campaign contribution to an applicable public official of the state or a local public body during the two years prior to the date on which the contractor submits a proposal or, in the case of a sole source or small purchase contract, the two years prior to the date the contractor signs the contract, if the aggregate total of contributions given by the prospective contractor, a family member or a representative of the prospective contractor to the public official exceeds two hundred and fifty dollars (\$250) over the two year period.

THIS FORM MUST BE FILED BY ANY PROSPECTIVE CONTRACTOR WHETHER OR NOT THEY, THEIR FAMILY MEMBER, OR THEIR REPRESENTATIVE HAS MADE ANY CONTRIBUTIONS SUBJECT TO DISCLOSURE.

The following definitions apply:

"Applicable public official" means a person elected to an office or a person appointed to complete a term of an elected office, who has the authority to award or influence the award of the contract for which the prospective contractor is submitting a competitive sealed proposal or who has the authority to negotiate a sole source or small purchase contract that may be awarded without submission of a sealed competitive proposal.

"Campaign Contribution" means a gift, subscription, loan, advance or deposit of money or other thing of value, including the estimated value of an in-kind contribution, that is made to or received by an applicable public official or any person authorized to raise, collect or expend contributions on that official's behalf for the purpose of electing the official to either statewide or local office. "Campaign Contribution" includes the payment of a debt incurred in an election campaign, but does not include the value of services provided without compensation or unreimbursed travel or other personal expenses of individuals who volunteer a portion or all of their time on behalf of a candidate or political committee, nor does it include the administrative or solicitation expenses of a political committee that are paid by an organization that sponsors the committee.

"Contract" means any agreement for the procurement of items of tangible personal property, services, professional services, or construction.

"Family member" means spouse, father, mother, child, father-in-law, mother-in-law, daughter-in-law or son-in-law.

"Pendency of the procurement process" means the time period commencing with the public notice of the request for proposals and ending with the award of the contract or the cancellation of the request for proposals.

"Person" means any corporation, partnership, individual, joint venture, association or any other private legal entity.

"Prospective contractor" means a person who is subject to the competitive sealed



proposal process set forth in the Procurement Code or is not required to submit a competitive sealed proposal because that person qualifies for a sole source or a small purchase contract.

**"Representative of a prospective contractor"** means an officer or director of a corporation, a member or manager of a limited liability corporation, a partner of a partnership or a trustee of a trust of the prospective contractor.

**DISCLOSURE OF CONTRIBUTIONS:**

Contribution Made By: \_\_\_\_\_

Relation to Prospective Contractor: \_\_\_\_\_

Name of Applicable Public Official: \_\_\_\_\_

Date Contribution(s) Made: \_\_\_\_\_

Amount(s) of Contribution(s) \_\_\_\_\_

Nature of Contribution(s) \_\_\_\_\_

Purpose of Contribution(s) \_\_\_\_\_

(The above fields are unlimited in size) \_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title (position)

-OR-

**NO CONTRIBUTIONS IN THE AGGREGATE TOTAL OVER TWO HUNDRED FIFTY DOLLARS (\$250) WERE MADE to an applicable public official by me, a family member or representative.**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title (Position)

# MATERIAL SAFETY DATA SHEET

PAGE:	1 of 5
REVISION DATE:	09/16/2006
PRINT DATE:	01/29/2008

## 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

### CLARIFLOC C-358 POLYMER

**Supplier :**

**POLYDYNE INC.**

PO Box 279

Riceboro, Georgia 31323

Tel : 800-848-7659 Fax : 912-884-8770

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Identification of the preparation :** Cationic polymer in solution

Chemical Name	CAS-No	Weight %
Polydiallyldimethylammonium chloride (Polydadmec)	26062-79-3	20-50

## 3. HAZARDS IDENTIFICATION

*Spills produce extremely slippery surfaces.*

*Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.*

## 4. FIRST AID MEASURES

**Inhalation :** Move to fresh air.

**Skin contact :** Wash with water and soap as a precaution. In case of persistent skin irritation, consult a physician.

**Eye contact :** Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

**Ingestion :** The product is not considered toxic based on studies on laboratory animals.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media :** Water, water spray, foam, carbon dioxide (CO2), dry powder

**Special fire-fighting precautions :** Spills produce extremely slippery surfaces.

**Protective equipment for firefighters :** No special protective equipment required.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions :** No special precautions required.
- Environmental precautions :** Do not contaminate water.
- Methods for cleaning up :** Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilled in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

- Handling :** Avoid contact with skin, eyes and clothing. When preparing the working solution ensure there is adequate ventilation. Do not breathe vapours or spray mist. When using do not smoke.
- Storage :** Keep in a dry, cool place (0 - 35°C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering controls :** Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.
- Personal protection equipment**
- **Respiratory protection :** In case of insufficient ventilation wear suitable respiratory equipment.
  - **Hand protection :** Rubber gloves.
  - **Eye protection :** Safety glasses with side-shields. Do not wear contact lenses.
  - **Skin protection :** Chemical resistant apron or protective suit if splashing or contact with solution is likely.
- Hygiene measures :** Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form :** liquid
- Color :** amber
- Odor :** slight
- pH :** 4 - 8 for product series. See Technical Bulletin for specific value.
- Melting point (°C) :** Not applicable.
- Flash point (°C) :** >100°C

**Autoignition temperature (°C) :** >200°C

**Bulk density :** See Technical Bulletin

**Water solubility :** Completely miscible.

**Viscosity (mPa s) :** See Technical Bulletin

## 10. STABILITY AND REACTIVITY

**Stability :** Product is stable, No hazardous polymerization will occur.  
Oxidizing agents may cause exothermic reactions.

**Hazardous decomposition products :** No decomposition if stored and applied as directed. Burning of the dried material can produce : hydrogen chloride gas, nitrogen oxides (NO<sub>x</sub>), carbon oxides (CO<sub>x</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

- **Oral :** LD50/oral/rat > 2000 mg/kg
- **Dermal :** This product has been tested for cutaneous irritation on New Zealand White male rabbits according to OECD guideline 404. No effects (erythema or edema) were observed after 24 hours. Not irritating
- **Inhalation :** The product is not expected to be toxic by inhalation.

### Irritation

- **Skin :** May cause skin irritation with susceptible persons
- **Eyes :** Testing conducted on rabbits showed minor transient irritation which cleared within days.

**Sensitization :** The product is not expected to be sensitizing.

**Chronic toxicity :** NOEL / Oral / rat / 90-day = 5000 mg/kg  
Two-year feeding studies on rats and dogs did not reveal any adverse health effects.

**Other information :** Not mutagenic in AMES Test.  
Not mutagenic in micronucleus test on mice.  
Not teratogenic, NOEL = 175 mg/kg.

## 12. ECOLOGICAL INFORMATION

### ***Ecotoxicity:***

The product is rapidly eliminated from the aquatic medium through irreversible adsorption onto suspended matter (sludge, clays, humic and other organic acids) and abiotic degradation (hydrolysis). The degradation products are practically non-toxic to aquatic organisms and present no danger to the environment.

- ***Fish*** LC50/Danio rerio/96 hr > 10 mg/L (OECD 203)
- ***Algae*** : Algal inhibition tests are not appropriate. The flocculating characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.
- ***Daphnia*** : EC50/Daphnia magna/48 hr > 10 mg/L (OECD 202)
- Bioaccumulation*** : Does not bioaccumulate.
- Persistence / degradability*** : Not readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

- Waste from residues / unused products*** : In accordance with federal, state and local regulations.
- Contaminated packaging*** : Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local regulations.

## 14. TRANSPORT INFORMATION

Not regulated by DOT, IATA, IMDG.

## 15. REGULATORY INFORMATION

All components of this product are on the TSCA and DSL inventories.

- RCRA status*** : Not a hazardous waste.
- Hazardous waste number*** : Not applicable
- Reportable quantity (40 CFR 302)*** : Not applicable
- Threshold planning quantity (40 CFR 355)*** : Not applicable

**CLARIFLOC C-358 POLYMER**

<b>PAGE:</b>	<b>5 of 5</b>
<b>REVISION DATE:</b>	<b>09/18/2008</b>
<b>PRINT DATE:</b>	<b>01/29/2008</b>

**California Proposition 65 Information :**

Not applicable

HMIS & NFPA Ratings	HMIS	NFPA
Health :	1	1
Flammability :	0	0
Reactivity :	0	0
Personal Protection/Special :	B	

**16. OTHER INFORMATION****Person to contact :**

Regulatory Affairs Manager

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.



# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

---

**Product name :** CLARIFLOC (R) C-358 POLYMER

**Company :** POLYDYNE INC.  
Riceboro, GA 31323  
PO Box 279  
United States

**Telephone :** 1-800-848-7659

**Telefax :** (912)-884-8770

**E-mail :**

**Emergency telephone number :** 1-800-424-9300

**Product Use :** Processing aid for industrial applications.

## 2. HAZARDS IDENTIFICATION

---

### Emergency Overview :

#### **Appearance and Odor**

**Form :** Liquid

**Color :** Amber

**Odor :** Slight

Spills produce extremely slippery surfaces.

**Potential Environmental Effects :** The product contains a substance which is harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

---

**Identification :** Cationic polymer in solution.

#### 4. FIRST AID MEASURES

---

**Inhalation :** No hazards which require special first aid measures.

**Skin contact :** Wash with water and soap as a precaution. In case of persistent skin irritation, consult a physician.

**Eye contact :** Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

**Ingestion :** The product is not considered toxic based on studies on laboratory animals.

#### 5. FIRE-FIGHTING MEASURES

---

**Suitable extinguishing media :** Water, Water spray, Foam, Dry powder, Carbon dioxide (CO<sub>2</sub>).

**Precautions :** Spills produce extremely slippery surfaces.

**Special protective equipment for firefighters :** No special protective equipment required.

**Flash point :** Does not flash.

**Autoignition temperature :** Does not ignite.

#### 6. ACCIDENTAL RELEASE MEASURES

---

**Personal precautions :** No special precautions required.

**Environmental precautions :** As with all chemical products, do not flush into surface water.

**Methods for cleaning up :** Do not flush with water . Dam up. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. After cleaning, flush away traces with water.

#### 7. HANDLING AND STORAGE

---

##### Handling

**Safe handling advice :** Avoid contact with skin, eyes and clothing. When preparing the working solution ensure there is adequate ventilation. Do not breathe vapors or spray mist. When using do not smoke.

##### Storage

Keep in a dry, cool place (0 - 35 °C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

### Engineering measures

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists

### Personal protective equipment

**Respiratory protection** : In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection** : Rubber gloves.

**Eye protection** : Safety glasses with side-shields. Do not wear contact lenses where this product is used.

**Skin and body protection** : Chemical resistant apron or protective suit if spashing or repeated contact with solution is likely.

### Hygiene measures

Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

**Form** : Liquid

**Color** : Amber

**Odor** : Slight

**pH** : 5 - 7

**Specific Gravity** : 1.02 - 1.06

**Melting point/range** : Not applicable

**Flash point** : Does not flash

**Freezing point (°C)** : - 3 (°C)

**Autoignition temperature** : Does not ignite

**Water solubility** : Completely miscible

**LogPow** : 0

## 10. STABILITY AND REACTIVITY

---

**Stability :** Stable. Hazardous polymerisation does not occur.

**Materials to avoid :** Oxidizing agents may cause exothermic reactions.

**Hazardous decomposition products :** No decomposition if stored and applied as directed. Burning of the dried material can produce: hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

---

### Acute toxicity

**Skin :** LD50/dermal/rabbit > 5000 mg/kg.

**Oral :** LD50/oral/rat > 5000 mg/kg

**Inhalation :** The product is not expected to be toxic by inhalation.

### Irritation

**Skin :** Not irritating.

**Eyes :** May cause slight eye irritation.

**Sensitization :** The results of testing on human volunteers (Human Insult Patch Test) showed this material to be non-sensitizing.

**Chronic toxicity :** A one-year feeding study on rats did not reveal adverse health effects A one-year feeding study on dogs did not reveal adverse health effects

### Other information

Not mutagenic in AMES Test

Not mutagenic in micronucleus test on mice

Not teratogenic, NOEL = 25 mg/kg

A multi-generation study in rats showed no reproductive/developmental toxicity at a dose of 125 mg/kg/day

## 12. ECOLOGICAL INFORMATION

---

### Aquatic toxicity

**Toxicity to fish :** LC50/96 hours > 10 mg/l (OECD 203).

**Toxicity to daphnia :** EC50/48 hours > 10 mg/l (OECD 202).

**Toxicity to algae :** Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

### Environmental fate

**Persistence and degradability :** Not readily biodegradable.

**Hydrolysis :** Does not hydrolyse.

**LogPow :** 0

**Bioaccumulation :** Does not bioaccumulate.

### **Other ecological information :**

The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment

## 13. DISPOSAL CONSIDERATIONS

---

**Disposal :** In accordance with local, state and federal regulations.

**Container :** Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local, state and federal regulations.

## 14. TRANSPORT INFORMATION

---

### DOT

**Remarks :** Not classified as dangerous in the meaning of DOT regulations.

### IMDG/IMO

**Remarks :** Not classified as dangerous in the meaning of IMO/IMDG regulations.

### ICAO/IATA

**Remarks :** Not classified as dangerous in the meaning of ICAO/IATA regulations.

**15. REGULATORY INFORMATION**

---

**US SARA Reporting Requirements**

**SARA Title III Sections :**

**Sara (311, 312) hazard class :** Not concerned

**State Regulations**

**California Proposition 65 Information :** Not regulated.

**International Inventories**

**European Union (EINECS/ELINCS) :** All components of this product are either listed on the inventory or are exempt from listing.

**USA (TSCA) :** All components of this product are either listed on the inventory or are exempt from listing.

**Canada (DSL) :** All components of this product are either listed on the inventory or are exempt from listing.

**Australia (AICS) :** All components of this product are either listed on the inventory or are exempt from listing.

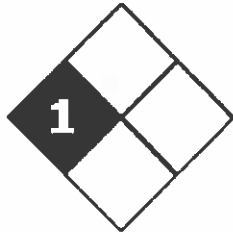
**Japan (ENCS) :** All components of this product are either listed on the inventory or are exempt from listing.

**Korea (ECL) :** All components of this product are either listed on the inventory or are exempt from listing.

**16. OTHER INFORMATION**

---

**NFPA and HMIS Ratings :**



**NFPA :**

Health :	1
Flammability :	1
Instability :	0

**HMIS :**

Health :	1
Flammability :	1
Physical Hazard :	0

Further information : This MSDS was prepared in accordance with the following :  
ANSI Z400.1-2004; Material Safety Data Sheets - Preparation

**Contact :** Regulatory Affairs Manager (912-880-8014)

---

The data in this Material Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.